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L 22402-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(h) IJP(c) WG

ACC NR: AP6007503 SOURCE CODE: UR/0109/66/011/002/0267/0270

AUTHOR: Karlov, N. V.; Prokhorov, A. M.

ORG: Institute of Physics, AN SSSR (Fizicheskiy institut AN SSSR)

TITLE: Regenerated TW quantum amplifiers

SOURCE: Radiotekhnika i elektronika, v. 11, no. 2, 1966, 267-270

TOPIC TAGS: laser, quantum amplifier

ABSTRACT: The characteristics of (a) a straight-through amplifier with a Fabry-Perot resonator, (b) a straight-through unidirectional amplifier in which the radiation propagates circularly, and (c) a circulator-type reflex amplifier are considered. It is assumed that the active-substance line width substantially exceeds the resonator passband. Formulas are developed for calculating these parameters: field-strength gain; power gain; gain instability; and reflection factor required for realizing a specified gain. It is found that: (1) The regeneration of (a) is stronger than that of (b); hence, other conditions being equal, (a) is more stable and has a wider band than (b); (2) The (c) amplifier has advantages over the two others as far as its stability and bandwidth are concerned. The above results hold true not only for resonator-type lasers but also for regenerated quantum r-f TW-amplifiers. Orig. art. has: 25 formulas.

SUB CODE: 09 / SUBM DATE: 24Nov64 / ORIG REF: 002 / OTH REF: 002 [03]

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UDC: 621.378.5

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KARLOV, Petur, tekh.

They are leading technical progress in the factory. Tekh delo no. 460: 1 [illegible]9 Ja '63.

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KARLOV, R., inzh.-tekhnolog

Prospects of the use of plastics by the Armenian economy.
Prom. Arm. 4 no.12:13-16 D '61. (MIRA 15:2)
(Armenia--Plastics)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KAMOV, V.

36786. Vliyaniye raboty zhereb'sovproizvoditeley na ikh vosproizvoditel'nuyu sposobnost.' Konevodstvo, 1949, No. 6, c. 13 - 14.

SO: Letopis Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V., vrach (Sochi); VOLKOV, Ya.

Physician of a health resort polyclinic. Okhr.truda i sots.strakh. 4 no.12:14-15 D '61. (MIRA 14:11)

1. Korrespondent zhurnala "Okhrana truda i sotsial'noye strakhovaniye".

(Rizo, Natal'ia Petrovna)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V., kand.med.nauk

Friends rally to help. Okhr. truda i sots. strakh 5 no.8:28-29 Ag '62. (MIRA 15:7)

1. Glavnyy vrach Ramenskoy gorodskoy bol'nitsy, Moskovskaya obl.
(RAMENSKOYE—TEXTILE INDUSTRY—HYGIENIC ASPECTS)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.

Drying seed corn under canvases. Muk.-elev. prom. 29 no.7:6 Jl '63. (MIRA 17:1)

1. Nachal'nik otdela tekhnokhimicheskogo kontrolya Ordzhonikidzevskogo mel'nichnogo kombinata.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, Vladimir Alekseyevich; MIRONOV, T.V., red.; KONSTANTINOV, A.F., tekhn.red.

[In the name of a great goal] Vo imia velikoi tseli. Moskva, Izd-vo "Sovetskaia Rossiia," 1959. 57 p. (MIRA 13:1)
(Vyshniy Volochek--Textile industry)
(Efficiency, Industrial)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A.

Pathophysiological analysis of hemiparesis with imitative synkinesis. Zhur. nevr. i psikh. 56 no.1:36-39 '56. (MLRA 9:4)

1. Maloarkhangel'skaya (Orlovskoy oblasti) rayonnaya bol'nitsa.
(PARALYSIS)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A.

Localization of some internal functions in the cerebral cortex. Zhur.nevr. i psikh. 56 no.12:968-969 '56. (MLRA 10:2)

1. Maloarkhangel'skaya rayonnaya bol'nitsa Orlovskoy oblasti.
(BRAIN--LOCALIZATION OF FUNCTIONS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A.

Clinical aspects and pathogenesis of Laurence-Bardet-Biedl syndrome [with summary in French]. Zhur.nevr. i psikh. 58 no.7:858-860 '58 (MIRA 11:7)

1. Klinika nervnykh bolezney (nauchnyy rukovoditel' - prof. D.S. Futer) Nauchno-issledovatel'skogo instituta pediatrii na baze detskoy gorodskoy blinicheskoy bol'nitsy No.1 (glavnyy vrach Ye.V. Prokhorovich) Moskva.

(LAURENCE-MOON-BIEDL SYNDROME, case reports (Rus))

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A.

Peculiar form of epilepsy found predominantly in childhood (paralytic form of epilepsy). Zhur.nerv.i psikh. 59 no.12:1455-1461 '59. (MIRA 13:4)

1. Klinika nervnykh bolezney (nauchnyy rukovoditel' - prof. D.S. Futer) TSentral'nogo nauchno-issledovatel'skogo instituta pediatrii Ministerstva zdravookhraneniya RSFSR na baze 1-y Gorodskoy klinicheskoy bol'nitsy (glavnyy vrach Ye.V. Prokhorovich), Moskva.
(EPILEPSY in inf. & child.)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A.

Some unusual forms of epilepsy in children. Vop.okh.mat.i det. 5 no.4:56-59 Jl-Ag '60. (MIRA 13:7)

1. Iz kliniki nervnykh bolezney (zav. - prof. D.S. Futer) Nauchno - issledovatel'skogo pediatricheskogo instituta (dir. - doktor med. nauk A.P. Chernikova) na baze Detskoy klinicheskoy bol'nitsy No.1 (glavnyy vrach - zaslushennyy vrach RSFSR Ye.V. Prokhorovich).
(EPILEPSY)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A.

Clinical aspects, pathogenesis, and treatment of epileptic hemiplegia in children. Pediatriia 23 no. 5:28-29 My '60. (MIRA 14:1)
(EPILEPSY) (PARALYSIS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

RONKIN, M.A.; KARLOV, V.A.

'Electroencephalography of children with epilepsy with postcrisis hemiparesis. Zhur.nevr.i psikh. 60 no.7:864-867 '60.
(MIRA 14:1)

1. Kafedra nervnykh bolezney (ispolnyayushchiy obyazannosti zaveduyushchego dotsent S.A. Mel'nikov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova i klinika nervnykh bolezney Pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR na baze I detskoy gorodskoy bol'nitsy (glavnyy vrach Ye.V. Prokhorovich).

(EPILEPSY) (ELECTROENCEPHALOGRAPHY)
(PARALYSIS)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A.

Phylo- and ontogenic analysis of the muscular arrangement in spastic hemiparesis. Zhur.nevr.i psikh 60 no.8:947-952 '60. (MIRA 13:9)

1. Klinika nervnykh bolezney (zav. - prof. D.S.Futer) Nauchno-issledovatel'skogo pediatricheskogo instituta (direktor - doktor med.nauk A.P.Chernikova) na baze 1-y gorodskoy klinicheskoy bol'nitsy (glavnyy vrach Ye.V. Prokhorovich), Moskva.
(CEREBRAL PALSY)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V. A.

Cand Med Sci - (diss) "Clinical analysis of epileptic hemiplegia." Moscow, 1961. 18 pp; (Academy of Medical Sciences USSR); number of copies not given; price not given; (KL, 6-61 sup, 238)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KATSNEL'SON, F.Ya.; GORELIK, Ye.I.; KARLOV, V.A.

Tropacine therapy of spastic motor paroxysms (salaam spasms, nodding) in young children. Zhur. nevr. i psikh. 61 no.7:1086-1090 '61. (MIRA 15:6)

1. Dispansernoye otdeleniye dlya detey i podrostkov (zav. - V.A. Kolegova) pri bol'nitse imeni Solov'yeva, Moskva.
(SPASMS) (TROPACINE)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A., kand.med.nauk; YAMPOL'SKAYA, R.S.

Mechanism of persistent paralysis following an epileptic seizure; a clinical observation. Klin.med. no.9:153-154 '62.

(MIRA 15:12)

1. Iz ramenskoy gorodskoy bol'nitsy (glavnyy vrach S.A. Syatayev, nauchnyy rukovoditel' - prof. D.S. Futer).

(PARALYSIS) (EPILEPSY)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A.

Physiopathology of hemiplegia following an epileptic seizure. Zhur. nevr. i psikh. 63 no.9:1347-1351 '63. (MIRA 17:8)

1. Nervnoye otdeleniye (zav. V.A. Karlov, nauchnyy rukovoditel'- prof. D.S. Futer) Ramenskoy gorodskoy bol'nitsy (glavnyy vrach S.A. Syagayev).

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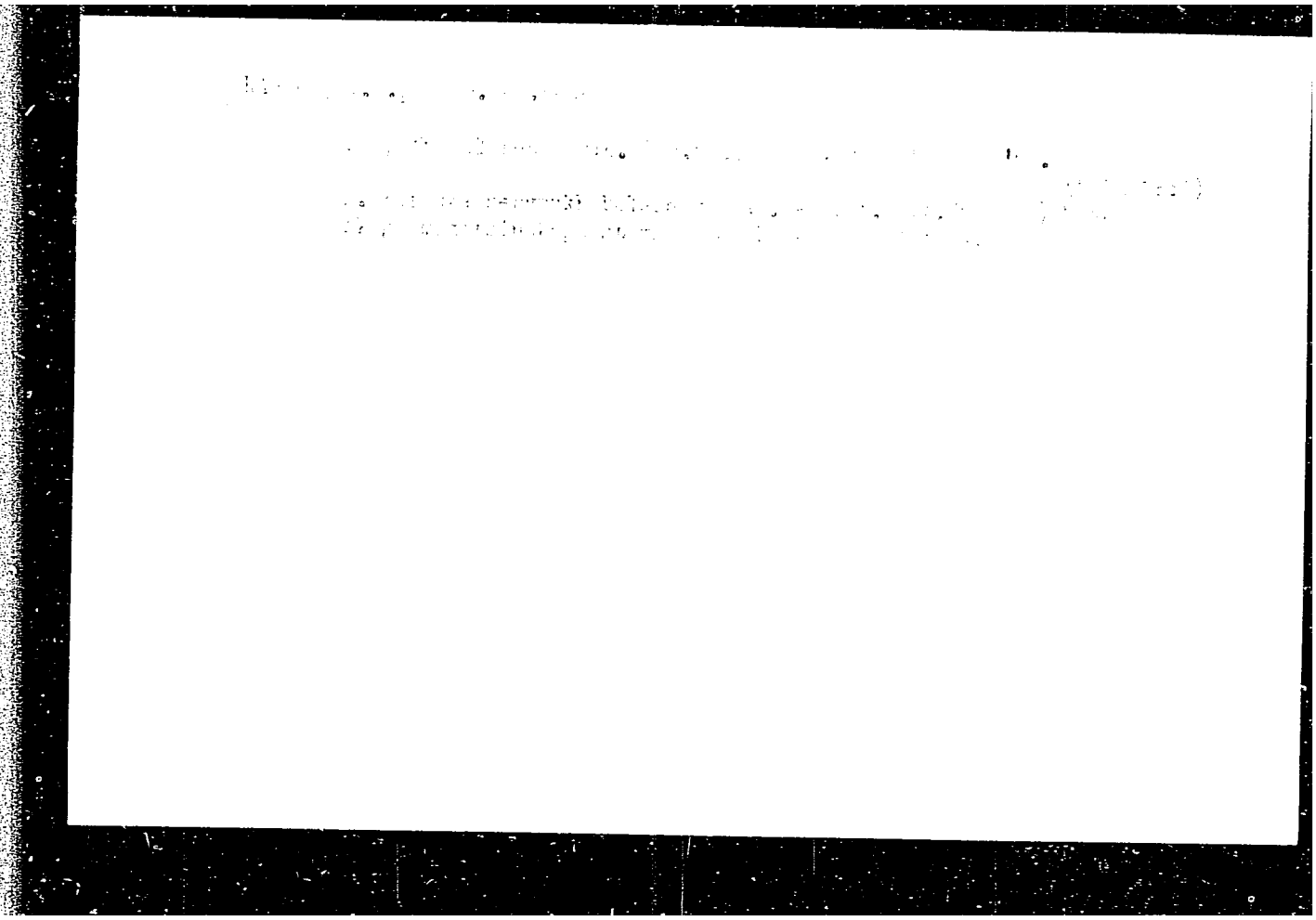

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.A.; [illegible], L.M.

Changes in the DNA in pyocins which [illegible] under the effect of inhibitors. [illegible] v. 31[illegible]. no.1:80-[illegible]

1. Kafedra [illegible] (Zav. - prof. [illegible]) Moskovskogo [illegible] (for Karlov). [illegible] (for Vladimirskaya). (Director I.D. [illegible]) Submitted September 20, 1965.

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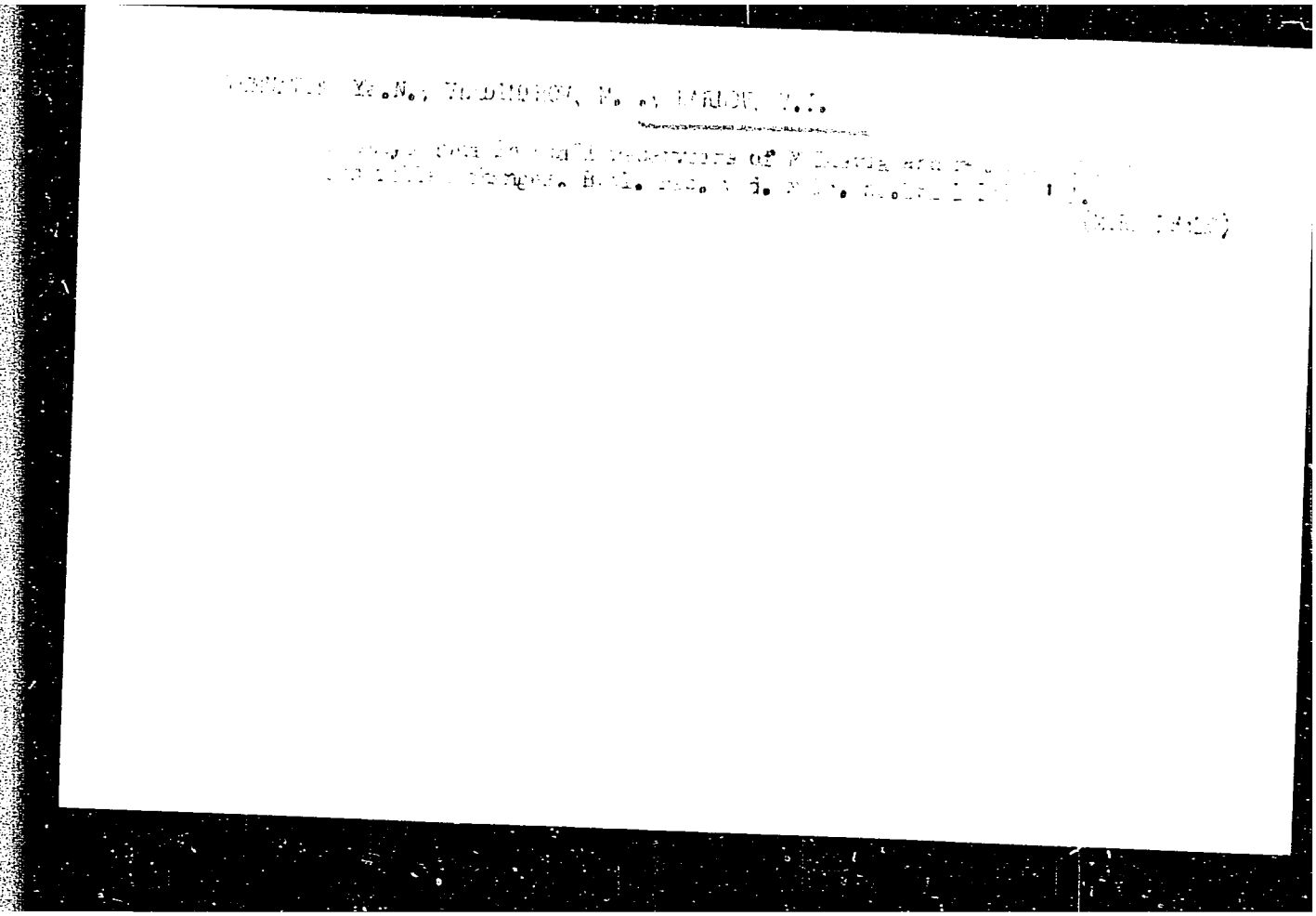

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

YAROSHENKO, M.F.; TOMNATIK, Yo.N.; NABEREZHNYY, A.I.; VAL'KOVSKAYA, O.I.; KARLOV, V.I.

Food interrelationships of some species of fishes in Dubossary Reservoir. Trudy Inst.biol.Mold.fil.AN SSSR 2 no.1:35-68 '60. (MIRA 16:4)
(DUBOSSARY RESERVOIR--FISHES--FOOD)

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KARLOV, V.I., kand.ist.nauk; MERKULYAYEV, P.A., kand.ist.nauk

Fortieth anniversary of the Great October Socialist Revolution.
Izv. vys. uchab. zav.; pri. no.1:5-11 '58. (MIRA 11:5)
(Russia--Economic conditions)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.I., kand.istor.nauk

Lenin's ideas of electrification are being realized. Sbor. st. LITSU no.49:40-51 '60. (MIRA 15:1)
(Lenin, Vladimir Il'ich, 1870-1924) (Electrification)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.I.

Age groups and growth of pike perch (Lucioperca lucioperca L.) in Dubossary Reservoir. Trudy Inst.biol.Mold.fil.AN SSSR 2 no.1:69-77 '60. (MIRA 16:4)
(DUBOSSARY RESERVOIR--PIKE PERCH)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.I.

Ecology of pike perch (Lucioperca lucioperca L.) in Dubossary Reservoir. Vop. ekol. 5:91-92 '62. (MIRA 16:6)

1. Institut biologii AN Moldavskoy SSR, Kishinev.
(Dubossary Reservoir--Pike perch)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V. N.

KARLOV, V. N. --"Types of Inhibition and Methods of Disinhibition of the Reflexes of Productive Stallions." Department of the Biology of Reproduction. Moscow, 1956. (Dissertation for the Degree of Candidate in Biological Sciences.)

So.: Knizhnaya Litopis', No 7, 1956.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720730002-0

KARLOV, V.N., kand.biolog.nauk, starshiy nauchnyy sotrudnik

Reproductive capacity of bulls as related to typological characteristics of the nervous system. Zhivotnovodstvo 21 no.9:56-58 S '59. (MIRA 13:1)

1. Moskovskaya gosudarstvennaya sel'skokhoz.opytnaya stantsiya.
(Bulls)

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KARLOV, V.N., starshiy nauchnyy sotrudnik

Best dates for the insemination of cows. Zhivotnovodstvo 23 no.8:77-79 Ag '61. (MIRA 16:2)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva tsentral'nykh rayonov nechernozemnoy zony.
(Artificial insemination) (Cows)

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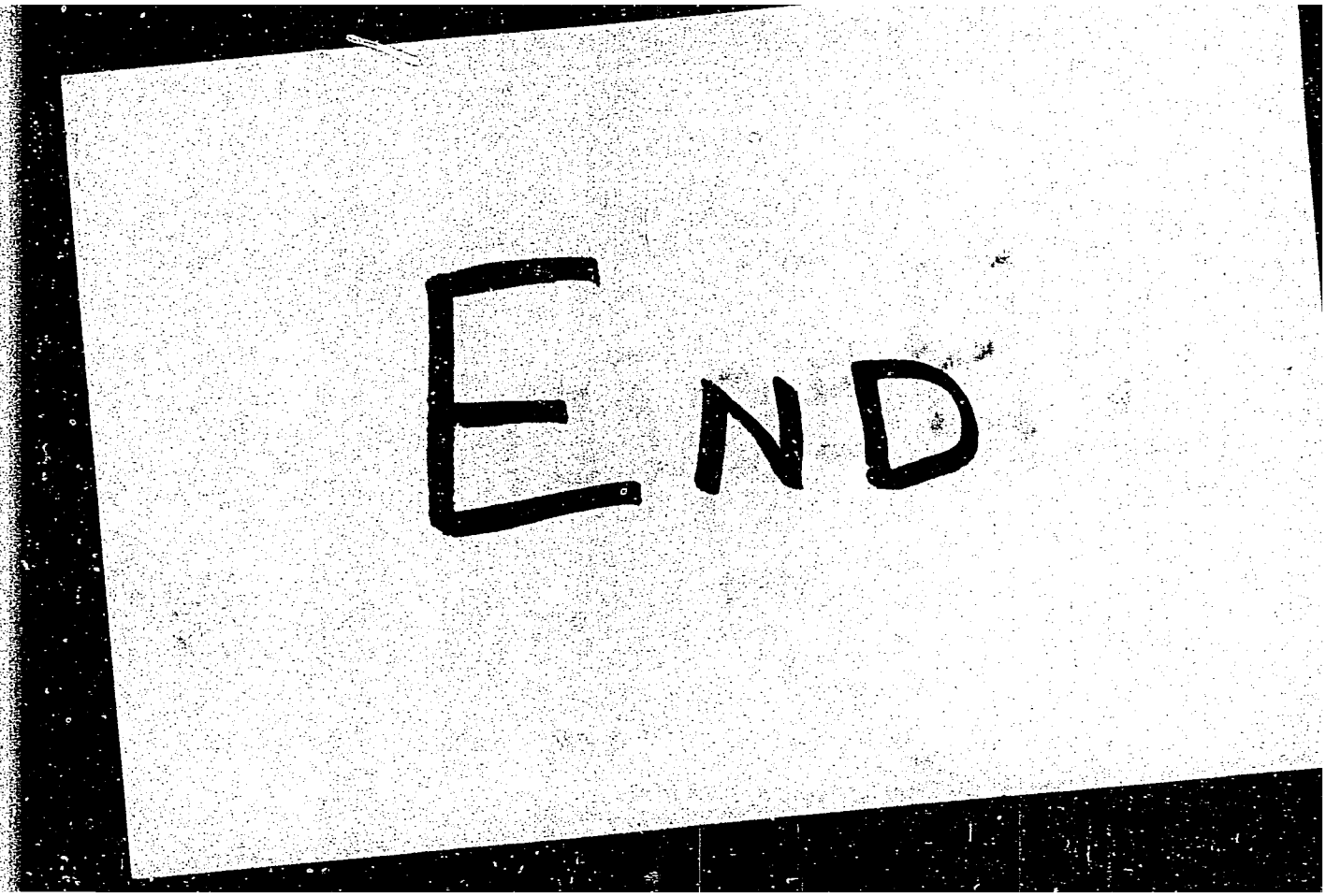


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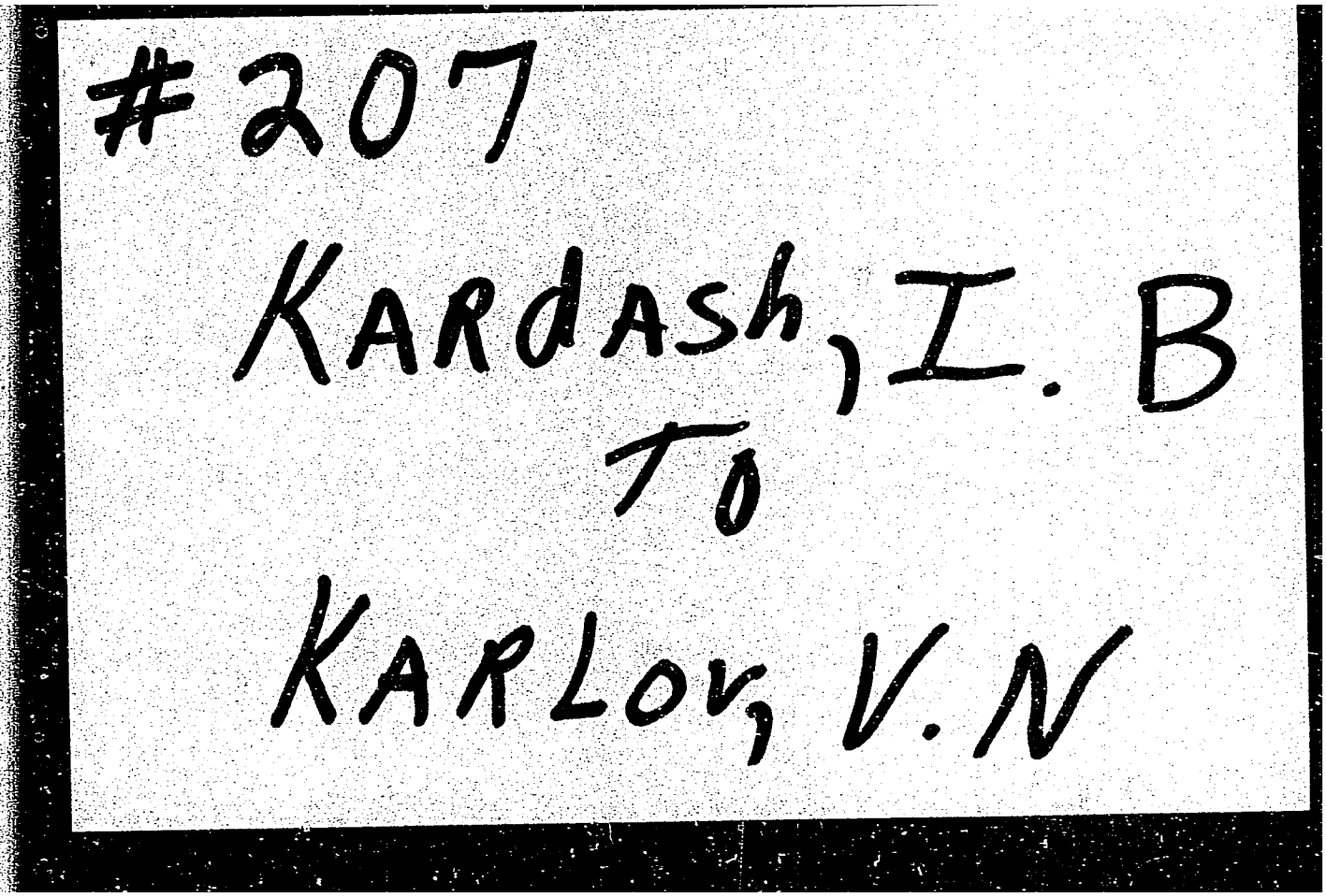


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